

4-5CR SERIES

Multi-stage centrifugal pumps

-  Clean water
-  Domestic use
-  Civil use



PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **73 m**

APPLICATION LIMITS

- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **10 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY



INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. As a result of their quietness these pumps are widely used in domestic applications such as the distribution of water in combination with small and medium sized pressure tanks, and for the irrigation of gardens and orchards, etc. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

PATENTS - TRADE MARKS - MODELS

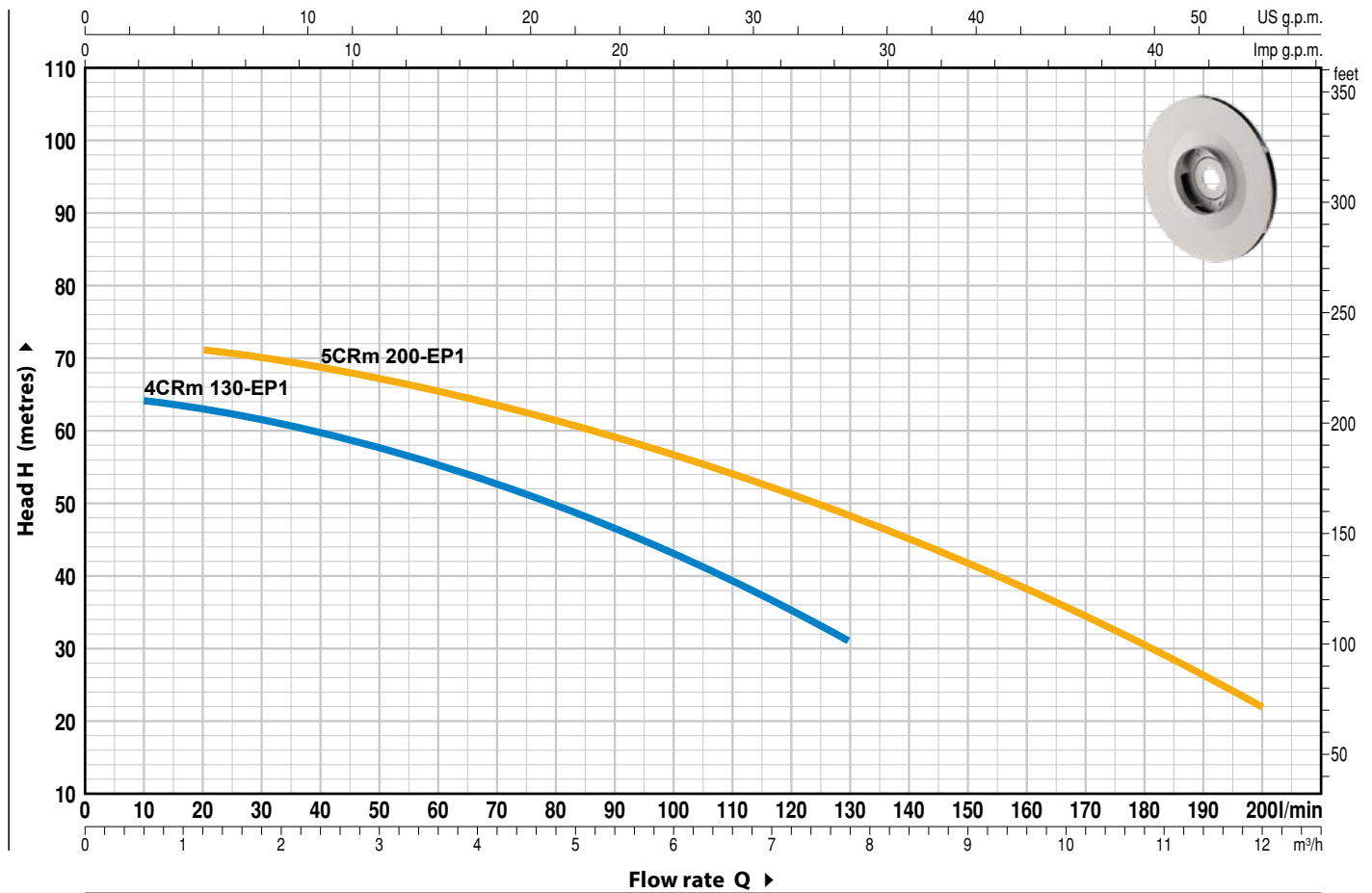
- Patent n. EP14755156.8

OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- IPX5 class protection

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n = 2900 min⁻¹ HS = 0 m



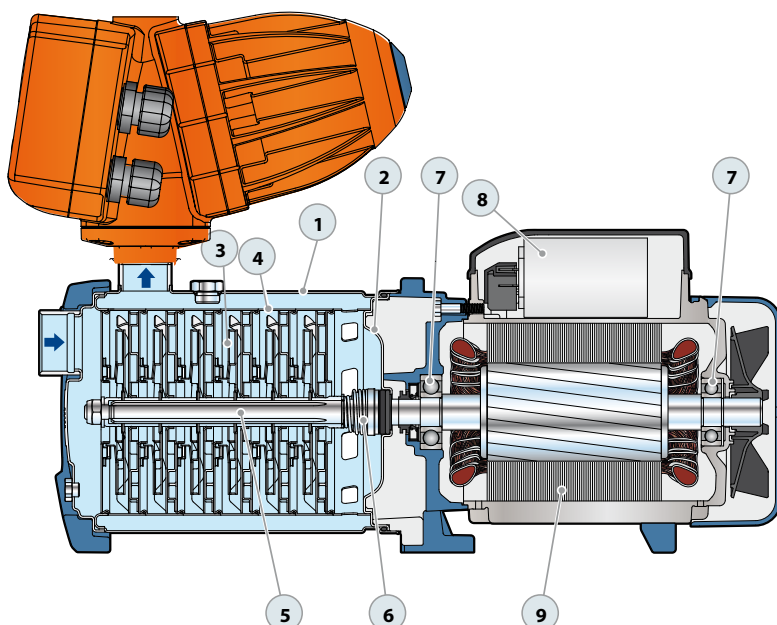
MODEL	POWER (P ₂)			Q	Flow rate																
	kW	HP	▲		m ³ /h	0	0.3	0.6	1.2	2.4	3.6	4.8	5.4	6.0	7.8	8.4	9.6	10.8	12.0		
Single-phase				l/min	0	5	10	20	40	60	80	90	100	130	140	160	180	200			
4CRm 130-EP1	1.5	2	IE3	H metres	65	65	64	63	60	56	50	47	43	31							
5CRm 200-EP1	1.8	2.5			73	72	71.5	71	69	65.5	62	59	56.5	48	44.5	38	30	22			

Q = Flow rate H = Total manometric head HS = Suction height

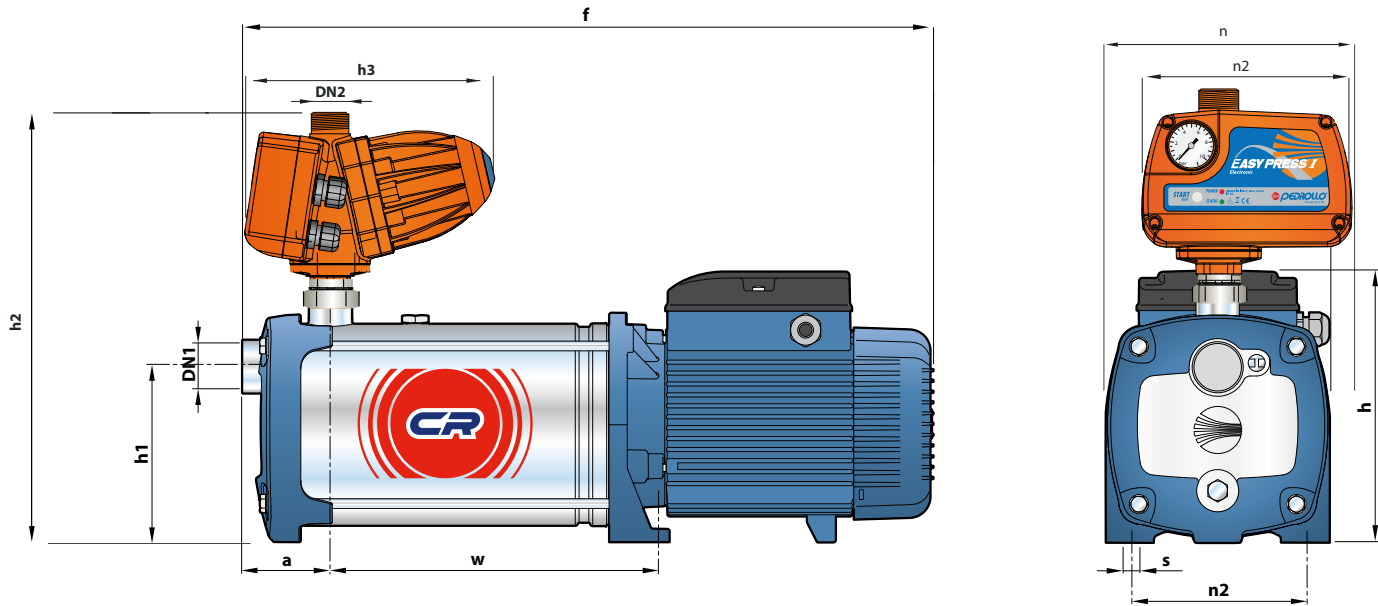
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

4-5CR SERIES

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS				
1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	BODY BACKPLATE	Stainless steel AISI 304				
3	IMPELLERS	Stainless steel AISI 304				
4	DIFFUSERS	Stainless steel AISI 304				
5	MOTOR SHAFT	Stainless steel AISI 431				
6	MECHANICAL SEAL	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>		
		<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		FN-18	Ø 18 mm	Graphite	Silicon carbide	EPDM
7	BEARINGS	6304 2RS - C3 / 6204 ZZ - C3E				
8	CAPACITOR	<i>Pump</i>	<i>Capacitance</i>			
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>			
		4CRm 130-EP1	45	µF - 450 VL		
		5CRm 200-EP1	50	µF - 450 VL		
9	ELECTRIC MOTOR	Single-phase 240 V - 50 Hz with thermal overload protector incorporated into the winding.				
		<ul style="list-style-type: none"> - Insulation: class F - Protection: IP X4 				



DIMENSIONS AND WEIGHT



MODEL	PORTS		DIMENSIONS mm										kg
	DN1	DN2	a	f	h	h1	h2	n	n2	w	s	h3	
4CRm 130-EP1	1¼"	1"	73	471	228	145	395	205	175	167	11	221	20.3
5CRm 200-EP1				518									193

ABSORPTION

MODEL	VOLTAGE
Single-phase	240 V
4CRm 130-EP1	9.9 A
5CRm 200-EP1	12.0 A